

## UTILITY PATENT APPLICATION TRANSMITTAL

## MAIL STOP PATENT APPLICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Customer No. 23696

Attorney Docket No.: 030226

Date: March 24, 2004

Express Mail Label No.: EV424920976US

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Arak Sutivong, Ayman Faway Naguib and Avneesh AgrawalFor: INTERFERENCE AND NOISE ESTIMATION IN AN OFDM SYSTEM

Enclosed are:

1. ☒ Patent application (26) total pages.
2. ☒ Drawings: ☒ Formal (6) sheet(s) or ☐ Informal ( ) sheet(s).
3. ☒ Declaration/Power of Attorney: ☐ Signed ☒ Unsigned
4. ☒ This application claims priority from Application Serial No. 60/470,724, Filed May 14, 2003, Status Pending.
5. ☐ An Assignment ( ) pages and Recordation Form Cover Sheet.
6. ☐ A Preliminary Amendment ( ) pages.
7. ☐ Information Disclosure Statement (IDS):
  - a. ☐ PTO-1449
  - b. ☐ Copies of IDS Citations (number of citations: )
8. ☐ Other:

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	20 - 20	0	x \$18 =	\$0
Independent**	3 - 3	0	x \$86 =	\$0
Multiple Dependent Claim(s): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			\$290	\$0
APPLICATION FILING FEE			\$770	\$770
TOTAL FEE				\$770

\*If the number in column a is less than 20, enter 0 in column b.

\*\*If the number in column b is less than 3, enter 0 in column b.

9. ☐ A check in the amount of \$\_\_\_\_\_ is enclosed to pay the filing fee.
10. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$770. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
11. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: March 24, 2004Signature: Sandip (Micky) S. Minhas, Reg. No. 44,945  
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